

# ROXANNE GUÉNETTE

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## PERSONAL INFORMATION

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New Haven, CT  
USA, 06511 Email: roxanne.guenette@yale.edu

Nationality: Canadian

Date of birth: 22 April 1982 Languages: French, English and Spanish

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## RESEARCH POSITIONS

06/2010–present Postdoctoral Associate, Department of Physics, Yale University  
Postdoctoral Mentor: Prof. Bonnie Fleming

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## EDUCATION

06/2006–06/2010 Ph.D. in high-energy astrophysics, McGill University.  
Thesis work: *Observations of galactic compact objects with the VERITAS experiment.*  
Supervisor: Prof. Ken Ragan (Professor of Physics, McGill University)

05/2004–05/2006 Master's degree in particle physics, Université de Montréal.  
Thesis work: *Étude et optimisation de l'utilisation de détecteurs à gouttelettes surchauffées pour la détection de la matière sombre.*  
(*Study and optimisation of superheated droplet detectors for dark matter detection.*)  
Supervisor: Prof. Viktor Zacek (Associate Professor, Université de Montréal).

09/2001–05/2004 Undergraduate studies in Physics, Université de Montréal

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## RESEARCH INTERESTS

Particle physics:

- Neutrino detection
  - Neutrino oscillation
  - Sterile Neutrino Searches
  - Liquid Argon Detector development
  - Research and development of particle detectors
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## PROFESSIONAL ACTIVITIES, TEACHING EXPERIENCE AND OUTREACH

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|-----------------|--|
| 02/2012–present | Elected representative for the young-LBNE group at the Executive Committee and Institutional Board   |
| 09/2011–present | Co-convener of the Oscillation Physics Group for the MicroBooNE collaboration  |
| 09/2011–present | Organizer for High-Energy Physics seminars at Yale University  |
| 04/2011–present | Level-two manager in the MicroBooNE collaboration  |
| 09/2011–present | Participation in the “Girls’ science Investigation” program at Yale University   |
| 06/2010–present | Supervision of graduate and graduate student at Yale University  |
| 08/2009         | Organizer of the CRAQ student work shop at McGill University   |
| 08/2007         | Organizer of the Canada-America-Mexico international graduate students conference at McGill University   |
| 2004-2010       | Teaching assistant for different courses (Modern physics laboratories, Mathematical physics for chemists, Statistical mechanics and thermal physics, Classical mechanics), McGill University and Université de Montréal. |
| 2004-2006       | Participation at the SEUR (Sensibilisation aux Etudes et a la Recherche Universitaire) giving talks in high-schools and organizing laboratory visits for high-school students  |
| 05/2003-09/2003 | Research Assistant in particle physics for Prof. Viktor Zacek. Study and Calibration of detectors. Université de Montréal.   |
| 05/2002-09/2002 | Research Assistant in astrophysics for Prof. Daniel Nadeau. Writing code to find extrasolar planets. Université de Montréal.   |

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## SCHOLARSHIPS AND AWARDS

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| 05/2010 | Best student presentation award from the CRAQ (Centre de recherche en Astrophysique du Québec).  |
| 08/2009 | Dow-Hickson Fellowship-Physics from McGill University.   |
| 08/2009 | Principal’s Grad Fellowship-Science from McGill University.  |
| 09/2008 | Scholarship for international travelling to work on the VERITAS experiment for three months from FQRNT (Fond Quebecois de la Recherche sur la Nature et les Technologies). |
| 05/2008 | PhD scholarship from FQRNT.  |
| 05/2006 | Scholarship for thesis submission from Faculty of graduate studies of Université de Montréal.  |
| 05/2004 | Academic excellence scholarship from Faculty of graduate studies of Université de Montréal.  |
| 05/2002 | Scholarship for summer research assistant from NSERC (Natural Sciences and Engineering Research Council of Canada).  |